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# NOTICE OF ALLOWANCE AND FEE(S) DUE

32692 7590 04/03/2008 3M INNOVATIVE PROPERTIES COMPANY PO BOX 33427 ST. PAUL. MN 55133-3427 EXAMINER

JONES, JAMES

ART UNIT PAPER NUMBER

2873 DATE MAILED: 04/03/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595,187	03/21/2006	Knut Schumacher	59006US004	4227

TITLE OF INVENTION: DISPLAY DEVICE FOR IRREVERSIBLY SWITCHING FROM A FIRST INDICATING STATE TO A SECOND INDICATING STATE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	07/03/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further c indicated unless correcte maintenance fee notificat	form should be used for correspondence includir d below or directed oth ions.	or tran g the l erwise	smitting the ISSU Patent, advance or in Block 1, by (a					hould be completed when correspondence address a trate "FEE ADDRESS" fo
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block I for any change of address)					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
32692 7590 04403/2008 3M INNOVATIVE PROPERTIES COMPANY PO BOX 33427 ST. PAUL, MN 55133-3427					Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the Unite States Postal Service with sufficient postage for first class mail in an envelop addressed to the Mail Stop ISSUE FEE address above, or being facsimal transmitted to the USPIO (27) 1273-2885, on the date indicated below.			
								(Depositor's name)
								(Signature)
				L				(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTO	R	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/595,187	03/21/2006			Knut Schumacher			59006US004	4227
TITLE OF INVENTION: STATE	DISPLAY DEVICE FO							
APPLN, TYPE	SMALL ENTITY	IS:	SUE FEE DUE	PUBLICATION FEE DUI	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		\$1440	\$300	\$0		\$1740	07/03/2008
EXAMI	NER		ART UNIT	CLASS-SUBCLASS	7			
JONES, J			2873	359-265000	_			
"Fee Address" indi- PTO/SB/47; Rev 03-0. Number is required.  3. ASSIGNEE NAME AN	ordence address (or Cha v/122) attached. cation (or "Fee Address 2 or more recent) attach ND RESIDENCE DATA cas an assignee is ident in 37 CFR 3.11. Comp	nge of ' Indica ed. Use	Correspondence  ation form  of a Customer  E PRINTED ON T		to 3 registered pater tively, gle firm (having as a agent) and the nam torneys or agents. If he printed. ype) patent. If an assign n assignment.	memb es of u no nan	per a 2p to p to a is 3	ocument has been filed for
Please check the appropri	ate assignee category or	catego	ries (will not be pr	inted on the patent):	Individual C	orporati	ion or other private gro	oup entity Government
Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies				b. Payment of Fee(s): (PI A check is enclosed Payment by credit c The Director is here overpayment, to De	ard. Form PTO-2038 by authorized to cha	is atta	sched. required fee(s), any de	
	SMALL ENTITY state	s. See	37 CFR I.27.	b. Applicant is no lo				
NOTE: The Issue Fee and interest as shown by the re	l Publication Fee (if req ecords of the United Sta	iired) v tes Pate	will not be accepted ent and Trademark	d from anyone other than Office.	the applicant; a reg	istered.	attorney or agent; or th	e assignee or other party ir
Authorized Signature					Date			
Typed or printed name					Registration N			
This collection of informs an application. Confident submitting the completed this form and/or suggestic Box 1450, Alexandria, Vi Alexandria, Virginia 2231	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this but reginia 22313-1450. DC (3-1450.	FR 1.3 U.S.C. USPT den, st NOT	11. The informatic 122 and 37 CFR O. Time will vary hould be sent to the SEND FEES OR O	on is required to obtain on 1.14. This collection is a depending upon the ind e Chief Information Officompleted FORMS	r retain a benefit by estimated to take 12 lividual case. Any co cer, U.S. Patent and TO THIS ADDRES:	the pub minuter omment Trader S. SEN	lic which is to file (and s to complete, includin is on the amount of tir nark Office, U.S. Dep D TO: Commissioner	by the USPTO to process g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450

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#### UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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3M INNOVATIVE PROPERTIES COMPANY PO BOX 33427			JONES, JAMES		
			ART UNIT PAPER NU		
ST. PAUL, MN:	55133-3427	2873			

# Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Notice of Allowability

Application No.	Applicant(s)	
10/595,187	SCHUMACHER ET	AL.
Examiner	Art Unit	
IAMES C. JONES	2873	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to application filed 3/21/2006.
- 2. The allowed claim(s) is/are 1-22.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) 

    All b) 

    Some\* c) 

    None of the:
    - 1. T Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_
      - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDOMMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) Thereto or 2) to Paper No./Mail Date
  - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying Indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. 
  Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date <u>See Continuation Sheet</u>

  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. ☐ Other .

/Jordan M. Schwartz/ Primary Examiner, Art Unit 2873  $Continuation \ of \ Attachment(s) \ 3. \ Information \ Disclosure \ Statements \ (PTO/SB/08), \ Paper \ No./Mail \ Date: \ 9/18/2006 \ \& \ 12/10/2007.$ 

Application/Control Number: 10/595,187

Art Unit: 2873

Claims 1-22 are allowed.

## REASONS FOR ALLOWANCE/EXAMINER'S COMMENTS

### Reasons For Allowance

The following is an examiner's statement of reasons for allowance: none of the prior art either alone or in combination disclose or teach of the claimed combination of limitations to warrant a rejection under 35 USC 102 or 103. Specifically in reference to independent claim 1 (and its dependents), none of the prior art either alone or in combination disclose or teach of the claimed display device specifically including, as the distinguishing features in combination with the other limitations the claimed "display comprising a chamber containing an electrolytic liquid and wherein upon application of electric voltage of a predetermined level to said electrodes, gas is generated in said chamber causing the pressure within said chamber to exceed a threshold value such that liquid irreversibility exits said chamber through said at least one exit opening thereby switching the display from a first indicating state to the second indicating state".

#### Examiner's Comments

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

The drawings submitted on 3/21/2006 have been accepted by the Examiner.

The information disclosure statement (IDS) submitted on 9/18/2006 and 12/10/2007 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statements have been considered by the examiner.

Application/Control Number: 10/595,187
Art Unit: 2873

Avrahami et al. (4961885) is being cited herein to show a reference that discloses some similar features to that of the claimed invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES C. JONES whose telephone number is (571)270-1278. The examiner can normally be reached on Monday thru Friday, 8 a.m. to 5 p.m. est. time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Mack can be reached on (571) 272-2333. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Art Unit: 2873

JCJ /James C. Jones/ Examiner, Art Unit 2873

/Jordan M. Schwartz/ Primary Examiner, Art Unit 2873